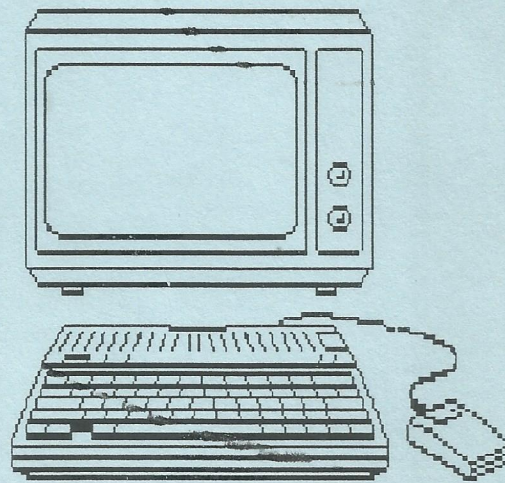




CHINOOK

The No Compromise
Storage Company



Chinook Technology Apple IIc Hard Drive Owner's Guide

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Radio and television interference

The equipment described in this manual has been certified to comply with the limits for Class B computer devices, pursuant to subpart J of Part 15 of FCC rules. Only computers and other peripherals (disk drives, tape drives, printer, etc.) may be attached to this equipment. Operation with non-certified equipment is likely to result in interference with radio and television reception. It is suggested that other equipment be used with shielded and grounded cables and with in-line filters if necessary.

Instruction to users: This equipment generated and uses radio frequency energy; if not installed and used properly, i.e. in accordance with the operating instructions and service manual, it may cause interference with radio and television reception. It has been tested and found to comply with the limits for an FCC Class B computing device, which are designed to provide reasonable protection against such interference when operated in residential installations.

If this equipment does cause interference with radio or television reception, which can be determined by turning the equipment OFF and ON, the user is encouraged to try to correct the interference by one or more of the following procedures:

- Re-orient the receiving antenna.
- Relocate the equipment with respect to the receiver.
- Move the equipment away from the receiver.
- Plug the equipment into a different outlet so that the equipment and the receiver are of different branch circuits.
- Ensure that the shielded cable is properly secured.

If necessary, consult Chinook Technology for additional suggestions at (303) 678-5007.

The manufacturer is not responsible for any radio or television interference caused by unauthorized modification of your hard disk. It is the responsibility of the user to correct such interference.

Caution: This product is equipped with a line cord and plug for the user's safety. It is to be used in conjunction with a properly grounded receptacle to avoid electrical shock.

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CHAPTER 1

System Setup and Installation

Introduction

Thank you for choosing a Chinook Technology quality product. Chinook has been producing such products for four years, all designed and manufactured at our location in Longmont, Colorado. We are a small and enthusiastic group, whose goal is to bring you the most reliable Apple II hardware available.

The result is our award winning CT series hard drives. All our products come with a one year or longer warranty (details and return policy are located in the "Warranty and Servicing" section, at the end of this manual.)

Read This Section!

We highly recommend you read this manual especially if this is your first hard drive purchase.

- ❖ In case you don't want to read the manual, here are a few helpful items of information. Your drive was sent to you formatted with the latest system software installed. Do not plug or unplug the Smartport cable from ANY daisy-chained device when either the computer or the Chinook IIc hard drive is 'ON'. This can result in damage to the drive, computer and other daisy-chained devices.

With the use of a hard drive, you encounter many new concepts. Our goal is to help you over the initial hurdle and get you up and running quickly and confidently. This manual covers the use of the bundled program selector, called appropriately enough Super Selector. Also covered is the process of creating and copying programs onto the hard drive using the included Apple System Utilities.

Reading the manual will also instruct you in how to back up your hard drive. We have included a backup of the system software as

it is installed on the hard drive. This is included in case the drive is accidentally formatted or critical files are deleted. With the included backup disks, you will be up and running quickly if critical files are accidentally deleted. We do not include backups of the demo, freeware or shareware programs. It is your responsibility to make sure you have adequate backup. Backup's of demo programs will be supplied for \$15.

We also suggest that if you don't already know about your particular computer and its system, research and get to know it. Read the manuals that came with it and all related software. If you're unsure about certain functions, consult reference materials, ask your computer dealer(s) or sign up for computer user clubs. The more familiar you are with your system, the more efficiently it will work for you.

And if after you receive your Chinook hard drive, you seem to have problems, relax and read the trouble-shooting section. Some things, no matter how hard we try to explain or to prepare you for, can only be learned and understood from experience. Make backups of everything before starting and then experiment, discover and enjoy. If you make a mistake, even if it seems to be devastating, just get out the backup and restore the files. Then try again--no harm done. If after a week you've come to an impasse, give us a call and we'll be happy to help you. Our technical support department can be reached at (303) 678-5007.

Warranty Card Reminder

One last note: Please fill out and return the enclosed registration card. This will protect your warranty and allow us to notify you of future enhancements in a timely fashion.

Package Contents

The first thing you should do is check the shipping package. Carefully remove the hard drive and accessories from the shipping container. Store the shipping container and original packing materials in a safe, dry place. This is critical should the disk drive require service. The warranty is void unless the system is shipped in this original packaging. Your package should include the following.

- Chinook hard drive, formatted and ready to run
- Shielded 19 pin Smartport daisy-chain cable
- Warranty registration card
- This manual

The IIc hard drive connects to the floppy port daisy-chain of your Apple IIc or IIc+. There are specific rules that govern the location of the hard drive. Due to differences in the two computers, we will discuss installation separately for each computer.

Hard Drive Location, Apple IIc

Three different types of drives may be connected to the Apple IIc. They are the UniDisk 3.5, the CT-20c and Apple 5.25 drive. The disks must be connected in the following order on the IIc daisy-chain:

1. Either the UniDisk 3.5 or the CT-20c may be the first device on the daisy-chain.

Both drives are SmartPort devices and are interchangeable in respect to their position. For example, if your system had three UniDisk 3.5 drives and a CT-20c, the CT-20c would function correctly at any position in the daisy-chain.

2. If an external Apple 5.25 drive is used, it must be the last device on the daisy-chain.

The IIc will not support more than one external Apple 5.25 drive.

3. For the CT-20c to be the startup device, it must be the first device on the daisy-chain.

Before powering up your system, make sure that either no disks are in the internal 5.25 drive or that the disk drive door is open. Power up the CT-20c and allow it to come "ready" (about 10 seconds). Then apply power to the IIc. The IIc will attempt to boot off the internal 5.25 floppy. After about 5 seconds, it will turn off the 5.25 drive and access the CT-20c drive and boot up the first system file on the hard drive.

Hard Drive Location, Apple IIc Plus

Four different types of drives may be connected to the Apple IIc+. They are the Apple 3.5 (or true compatible, UniDisk 3.5, CT-20c, and the Apple 5.25. The disks must be connected in the following order on the daisy-chain:

1. **If your system has external Apple 3.5 drives, they must be first on the daisy-chain.**

Please note that if you have an external Apple 3.5 drive, the CT-20c cannot be the startup device.

2. **The UniDisk 3.5 and the CT-20c are both SmartPort devices and are interchangeable in respect to their position on the daisy-chain.**

The UniDisk 3.5 drive(s) and the CT-20c can follow Apple 3.5 drives in any order. For example, if your system has an Apple 3.5 drive, two UniDisk 3.5's and a CT-20c, for the system to function correctly, the Apple 3.5 drive must be first and the two UniDisk 3.5's and the CT-20c may follow in any order.

3. **Apple 5.25 drives must be the last devices on the daisy-chain.**

The IIc+ has a limit of two Apple 5.25 drives.

4. **For the CT-20c to be the startup device, it must be the first device on the daisy-chain.**

Before powering up your system make sure no disk is in the internal 3.5 drive. Power up the CT-20c and allow it to come "ready" (about 10 seconds). Then apply power to the IIc+. The IIc+ will attempt to boot off the internal 3.5 drive. After about 2 seconds, it will turn off the 3.5 drive and access the CT-20c drive and boot up the first system file on the hard drive.

Chinook Hard Drive Installation

1. **Make sure power to both the computer and the hard drive is off.**

2. **Attach the power cord to the hard drive and plug it into the AC power source.**

Don't power up the hard drive yet.

3. **Position the hard drive in the correct position of the daisy-chain as determined by the above instructions.**
4. **Attach all devices that are to follow behind the hard drive. Tighten the thumbscrews.**

Even though the hard drive has two connectors, the devices

cable will only plug into the cable on the right (viewed from the back).

5. **Attach one end of the shielded system cable to the device ahead of the hard drive in the daisy chain. If no devices are ahead of the hard drive, attach the system cable to the computer. Tighten the thumbscrews.**

Note that each end of the system cable is different. The cable will only fit one way, so don't be concerned about making an error.

6. **Attach the other end of the shielded system cable to the back of the hard drive. Tighten the thumbscrews.**

- ❖ *Orientation:* We think the Chinook hard drive looks best used in the upright position. However, if you would like to place it horizontally, or even upside down, that's fine too; the integrity of the system will be preserved. However, you must ensure adequate clearance around the vent holes (approximately 1/2" on each side) to allow proper convection.

The hard drive is ready for operation.

- ❖ *Simultaneous Power Up:* The IIc hard drive must be powered up before turning on the IIc by about 10 seconds. If this precaution is not followed, the drive will not be recognized. Included with the demo software is a program called smartboot that does make provisions for simultaneous power up. It is included for your convenience, however, Chinook does not support this program. If you need technical support, please contact the author.

Technical Support 303/678-5007

Should you have any problems in the installation process, or have questions or situations not sufficiently covered here, contact Chinook technical number at (303) 678-5007. Technical support will not be offered on our 800 order and product information number. Please have your serial number (check the label on the back of the drive) ready for verification purposes. And while we can't help you with problems related to software operation, we will be glad to assist with problems associated with operation of the drive.

Before you call...

Read the troubleshooting section before contacting technical support and implement the suggestions. When you contact us, have the following information available:

Return Products to:

Chinook Technology, Inc.
615 Main Street., #635
Longmont, CO 80501

An RMA number is required or the return will not be accepted. Write the RMA number on the outside of the box. Drive must be in original packaging.

- Type of computer (IIC, IIC Plus, Laser 128EX)
ROM level 255, 0, 1,3,4 or 5
- Memory expansion card in the computer, by manufacturer, product name and amount of memory installed.
- Set of steps to duplicate the problem.
- Version of software you are using, including ProDOS 8.
- Re-run the disk verification routines described in the installation of your particular computer. Have a summary of errors encountered.

Technical support hours are from 11:00-2:30 and 4-7:30 Eastern time, Monday through Friday.

Return Policy

The IIC hard drive may be returned for any reason within 30 days of purchase. The following guidelines must be followed or your return will be rejected. An RMA (Return Material Authorization) is required and can be obtained from Chinook Technology (this is not a painful or intimidating process). The RMA number must be on the outside of the box. All materials must be returned and in new condition (there will be a \$10 fee for replacement of manuals and disks). The drive and associated material must be returned in original packaging.

Apple IIc Operation

Startup

Now that you have everything hooked up and connected, it's time to get started. If you installed all the components properly, your hard drive will be ready to use. The Chinook hard drive is formatted, partitioned (if applicable) and ready to run. There is no need to format the drive at this time.

If the IIc hard drive is not the first device on the smartport daisy-chain it will not be the startup device. Smartport devices include the Apple 3.5" drive (for IIc Plus owners only), the UniDisk 3.5 and the Chinook IIc hard drive. There can be up to four smartport devices attached to the IIc. In terms of slot and drive designations the first device will be allocated to Slot 5, Drive 1, the 2nd device to Slot 5, Drive 2, the third device to Slot 2, Drive 1 and the fourth device to Slot 2, Drive 2. 5.25" drives are technically NOT smartport devices and are allocated to the "traditional" positions of slot 6, Drive 1 and Slot 6, Drive 2.

IMPORTANT: IIc drives with capacities of greater than 20 megabytes will be partitioned into multiple volumes. They will appear to be separate drives to the user. For example, the CT-80c will have 3 partitions, two each that are 32MB large and the 3rd partition will contain 16MB. It will take the place of 3 drives. As the first device on an Apple IIc the three partitions will be allocated to Slot 5, drive 1, Slot 5, drive 2 and Slot 2, Drive 1.

The mapping of storage devices to Slot 2 does not effect your ability to use printer or modems attached to slot 2 (the modem port).

Let's get started.

1. Turn on the hard drive and allow it to spin up and "come ready". This will take approximately 10 seconds.
2. Turn on the computer, to boot to the program selector, Super Selector. This assumes the hard drive is the startup device.

The startup screen is shown below.

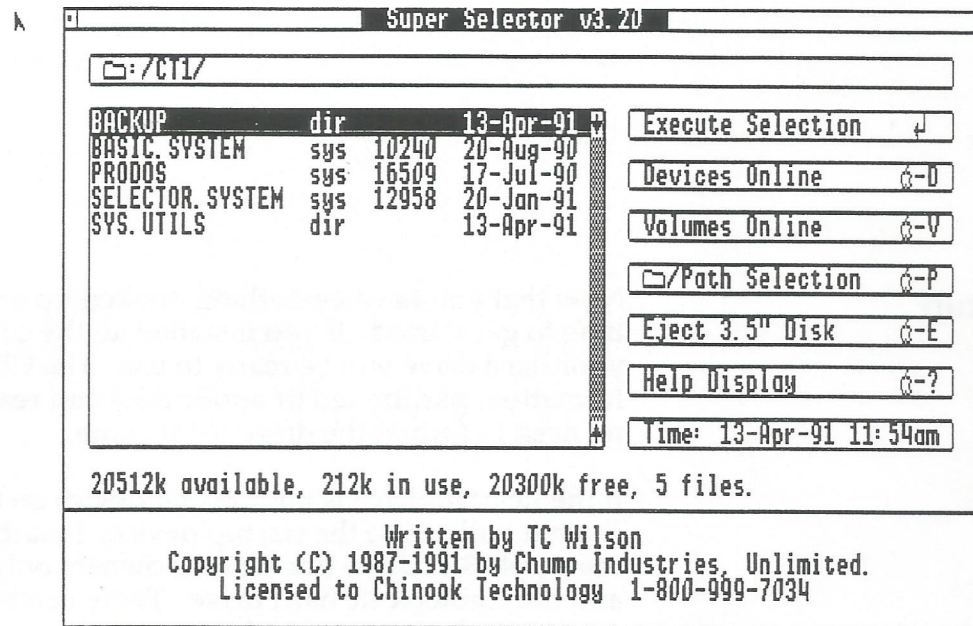


Figure 3-1 Super Selector startup screen

If the startup screen doesn't appear, power everything down and try again. If the problem remains, call Chinook Technical support.

Verify Drive Integrity

3. Using the arrow keys, highlight the Sys.Utils subdirectory and press "RETURN".

The executable files in the System Utilities subdirectory are now displayed on the Super Selector screen.

4. To run the Apple System Utilities, highlight the file Sysutil.system and press RETURN.

The main menu for the Apple System Utilities will appear as shown below.

```
Apple II System Utilities                                     Main Menu
Version 3.1                                                  ESC: Quit
```

Work on Entire Disks	Work on Individual Files
Catalog a Disk	Copy Files
List Volumes	Delete Files
Duplicate a Disk	Rename Files
Format a Disk	Lock/Unlock Files
Verify a Disk	
Work on ProDOS Disks Only	Other Options
Create Subdirectory	About the System Utilities
Set Prefix	Quit
Rename Volumes	

Press ↓ ↑ ← → to select an option.
Then press RETURN.

For Help: Press ⌘?

Figure 3-2 Apple System Utilities startup screen

5. Highlight the "Verify a Disk" selection and press RETURN.
6. Select the appropriate Slot and Drive for the first volume of the IIc hard drive.

Verification of a IIc hard drive volume will take approximately 20 to 30 minutes. You may halt the test at any

time by pressing the escape key.

7. If the drive has multiple partitions, repeat this test on each partition.
8. When the test is complete, press the escape key twice to return to the Main Menu.
9. When you quit the Apple System Utilities, you will be returned to the Super Selector main menu.

If There are Errors

If any errors are encountered during the drive verification test, contact Chinook Technology technical support at 303/678-5007.

Working with Backup II

Backup II is the only incremental backup program available for the ProDOS 8 operating system. Incremental means that after a full backup, it is only necessary to backup modified files after that. In other words the first backup is a real pain but subsequent backups are easy. For a variety of reasons, you will probably want to start over with a full backup every 2 weeks to a month depending upon how often you use your hard drive.

Your backup strategy should be to first make a full volume backup using the Backup by pathname option (and choosing the volume name of the drive partition so that the complete drive is a backed up. On subsequent backups, use the Backup modified files option. It is necessary that you keep all disks from each modified files backup as a restore function will require all of these disks to bring a file back to it's latest version. For this reason, about every two weeks to a month you will probably want to start over with a full volume backup using the Backup by pathname option so you can start over with a new set of incremental backups. To backup your hard drive, follow the following steps (realize that each partition must be backed up seperately):

1. At the Backup II main menu, select Backup files.
2. At the Backup files menu, select backup by pathname.
3. At the by Pathname menu, enter the volume name of your hard drive, /CT1 and press return.

If you only wanted to backup the AW subdirectory, you would have entered /CT1/AW at this prompt.

4. For the "To Device" select the appropriate slot and drive.

Usually Slot 6, Drive 1 for 5.25" drives and the appropriate smartport slot for the 3.5" drive.


```

Main Menu
├── Backup Files
│   ├── by Pathname
│   │   ├── Backup from:
│   │   │   └── /CT1
│   │   ├── to device:
│   │   │   └── (Slot 5, Drive II)
│   │   └── Select a listing output device:
│   └── Press <RET> to accept, <ESC> to exit
└── @? for Help

```

Figure 3-3 Backup II select pathname filecard.

If the disk has not been used as a Backup II disk before you will be asked if it is OK to reuse the disk. Answer YES. If the disk is a new disk, you will be prompted if it's OK to format the disk. Once again, answer YES.

△ Important

Backup II disks have a special format. If you try to catalog them with a normal Utility program, no files will be displayed (although if you look carefully you will see there are no free blocks on the disk). This is normal. Do not be alarmed or assume the backup is bad for this reason. △

Working with Super Selector

Set Up Super Selector Defaults

You may have already discovered that Super Selector is compatible with your mouse. To execute a selection with the mouse, simply position the mouse cursor in the box area of the equivalent Open Apple command and click.

1. Select the Super Selector Option Screen by pressing OA-O.

The Super Selector Option screen is shown below and is accessed with the OA-O command. (Note the option screen cannot be accessed with the mouse). Let's select the appropriate defaults for your system:

Super Selector v3.20									
Super Selector version 3.20 Options Screen									
Sort default:	☒ sort	☐ don't sort	A						
Invisible default:	☒ show	☐ don't show	B						
QuickDo default:	☐ show	☒ don't show	C						
Files to list:	☒ bas		D						
	☒ bin		E						
	☒ sys		F						
	☒ dir		G						
Slot to save to:	1	2	3	4	☒ 5	6	7	H	
Drive to save to:	☒ 1	2						I	
Pre-load filename upon first launch of SS v3.20:								J	
Exit		esc		QuickDo's		Q-Q		Save Copy	Q-S

Figure 3-4 Super Selector Options Screen

2. Sort default

Would you like the files to be presented to you in an alphabetical support or in their "real" order on the disk. Simply press the 'A' key to toggle the checkmark to the selection you desire.

3. Invisible default

This option is primarily for Apple IIgs users. GS/OS creates files for the program selector called Finder. Every subdirectory will have a file called Finder.data. Selecting the don't show option will hide the Finder files.

For Apple IIc users, selecting "don't show" will hide the file ProDOS. If you have an alphabetical sort and you find yourself accidentally selecting the file ProDOS instead of ProTERM for instance, you may want to consider the "don't show" default. Pressing the 'B' key will toggle between the two selections.

4. QuickDo default

You haven't been exposed to the QuickDo screen yet. It is a small screen that replaces the credit screen at the bottom of the Super Selector Main Menu. It allows you to set up a menu of programs that you can run by pressing a simple keystroke combination instead of navigating through all the subdirectories. It can hold up to 10 programs. As with all the defaults, you can change this at anytime. We suggest you select the 'show' option.

4. Files to list

If for some reason, you don't want Super Selector to list any of the filetypes listed, simply press the appropriate letter that corresponds to the filetype you desire not to be listed.

5. Slot to save to

Super Selector saves information such as the Options data you are selecting now and the QuickDo list you will create later to disk. Set this to the Slot of the hard drive.

6. Drive to save to

Select drive 1.

- ❖ There are reasons, especially if Super Selector is used on a floppy based system that you MIGHT want to save this information on another disk. We are hard pressed to come up with a good one ourselves. If you are one of those people that has a reason to select a different slot and drive, you probably don't need our help!

7. Pre-load filename upon first launch....

Super Selector can be programmed to automatically launch a file and bypass the main menu on startup only. To enter the file, press the 'J' key and enter the ProDOS pathname of the file you wish to automatically launch. If you don't understand

ProDOS pathnames, skip this section for now.

8. To view the QuickDO setup screen, press 'OA-Q.'

This is a move advanced feature we will come back to it later.

9. Press the ESC key to return to the options menu.

10. Press 'OA-S' to save the default information just selected..

This will save the defaults on the slot and drive selected on the options screen. The options screen is easy to change, so save the defaults you have selected now. The Save Copy button will be highlighted briefly and the drive access light will flash as the Super Selector option information is saved to the disk.

11. Press the ESC key to return to the Super Selector main menu.

We're now ready to run some of the programs already on the hard drive. The main menu of Super Selector contains the file entries of ProDOS, Selector.system (this program!), BASIC.System and the folders Backup II, System Utilities and CSU. If you are a programmer, Basic.System gets you into the BASIC programming environment. If you have BASIC applications, it is necessary for the file Basic.System to be in either the main directory (where it is now) or in the subdirectory of the program you wish to run. Let's enter the Basic Programming environment.

- ❖ CT-20c owners, since we don't normally partition 20 megabyte systems, your demo programs will also appear on the Main menu as additional subdirectories.

1. Highlight the entry Basic.System by either pressing the arrow keys until it is highlighted, or press the 'B' key (This will automatically position the cursor to the first file beginning with the letter B).

2. Press RETURN to run the highlighted program.

A 40 column screen will appear with the title information, ProDOS BASIC 1.4.1 (or higher), Copyright Apple 1983-90.

3. Type the word 'BYE' and press RETURN.

The 'BYE' command will quit the BASIC environment and return to Super Selector. If some of your BASIC programs leave you at the bracket prompt, try typing 'BYE' and RETURN before you reboot with a Control-Reset or type in a PR#N forcing your system to reboot.

Running Programs

Included with the hard drive are the Apple System Utilities and Backup II. We have licensed both of these programs from Apple Computer. You received documentation for the Apple System Utilities with your computer. We will give examples of using both of these programs. However, if you require additional detail, please refer to the appropriate manual.

Running Backup II

1. To run Backup II, highlight the directory entry Backup II and press return.

A single file will be displayed, Backup II.

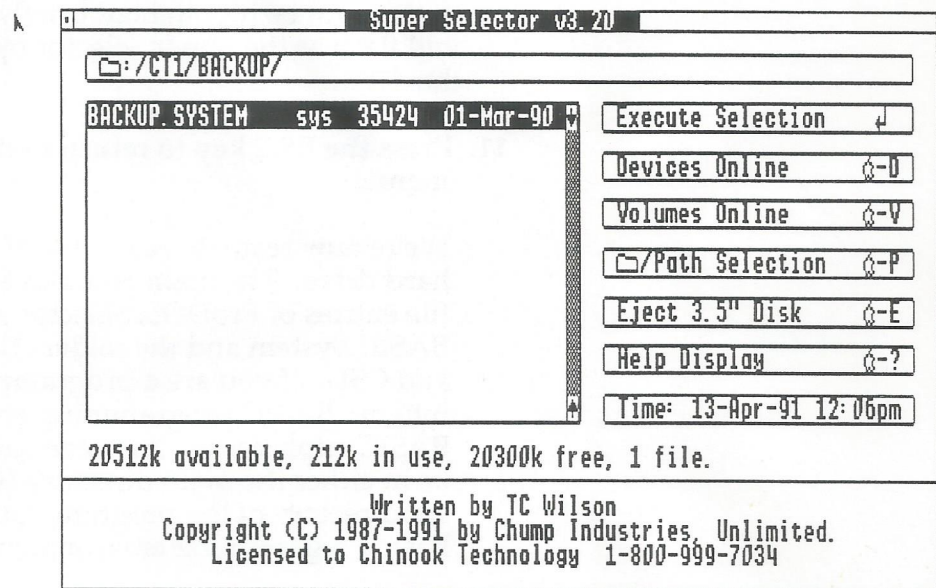


Figure 3-5 Running Backup II

2. To run the program, press RETURN.

If you haven't backed up your hard drive yet, refer back to page 11 and backup your hard drive NOW!

3. Select the Quit option (3)
4. Answer YES to the "Are you sure..." prompt.

You will be returned to Super Selector main menu.

Running Apple System Utilities

1. Highlight the SYS.UTILS subdirectory using the arrow keys, mouse or by pressing the 'S' key.

2. Press RETURN to enter the SYS.UTILS subdirectory

Two executable files are present, FASTCOPY.SYSTEM and SYSUTIL.SYSTEM.

- ❖ Executable files are almost always System files. They usually end with the suffix .SYSTEM (Aplworks.system for example) although that is not required. They will have the filetype, 'sys', as displayed on the Super Selector menu. Other executable files are usually BASIC and they have the filetype BAS. On rare occasion, binary files are executable and they have the filetype BIN.

FASTCOPY is a program for copying disks of the same size. Your free to investigate Fastcopy on your own time.

The Apple System Utilities is the utility we will use to copy files to the hard drive and perform other utility functions.

3. Write down the ProDOS pathname of the Apple System Utilities

Take note of the box at the top of the screen that contains a small 'folder' in its lefthand corner. The combination of slashes and letters constitute the ProDOS pathname. In this case, it will read:

/CT1/SYS.UTILS/

Please write this down on a piece of paper and append to it the startup file for the Apple System Utilities, SYSUTIL.SYSTEM. In other words, you should have written:

/CT1/SYS.UTILS/SYSUTIL.SYSTEM

This is called the 'complete ProDOS pathname'. It consists of the volume name (/CT1), the subdirectory (SYS.UTILS) and the actual filename (SYSUTIL.SYSTEM).

4. Run the Apple System Utilities.

Highlight the file Sysutil.system and press RETURN. The main System Utilities screen should appear. Press the ESC key (or use the arrow key) to highlight the QUIT selection). Press RETURN and answer YES to the "Are you sure you want to quit" prompt.

Let's add Backup II and the System Utilities to the QuickDo menu. After addition, these programs can be run by pressing the 'Closed Apple' key in combination with the appropriate number.

Adding Programs to the QuickDo Menu

1. Activate the options screen by pressing OA-O.
2. If you didn't select QuickDo default as SHOW during initial setup, do so now by pressing the letter 'C'.
3. Press OA-Q to access the QuickDo setup screen.

4. Use arrow keys to select the QuickDo entry you want to correspond to the Apple System Utilities.

You will probably want to save the first 5 or more selections for application programs such as AppleWorks, that are used on a daily basis. We suggest choosing positions 7 and 8.

5. Press RETURN to accept the QuickDo entry.

The cursor is now in the title screen

6. Enter the name you want to refer to the program by.

You may call the program anything you desire. For example, Apple System Utilities, System Utilities, ASU or even FRED.

If you misspelled the name, use the arrow key (the DELETE key doesn't work) to reposition the cursor at the beginning of the Title and press 'OA-Y' to delete the entry and then re-enter it.

7. Press RETURN to accept the file title entry.
8. At the folder entry, enter the ProDOS pathname of the Apple System Utilities:

/CT1/SYS.UTILS/SYSUTIL.SYSTEM

9. To accept the entry, press OA-A.

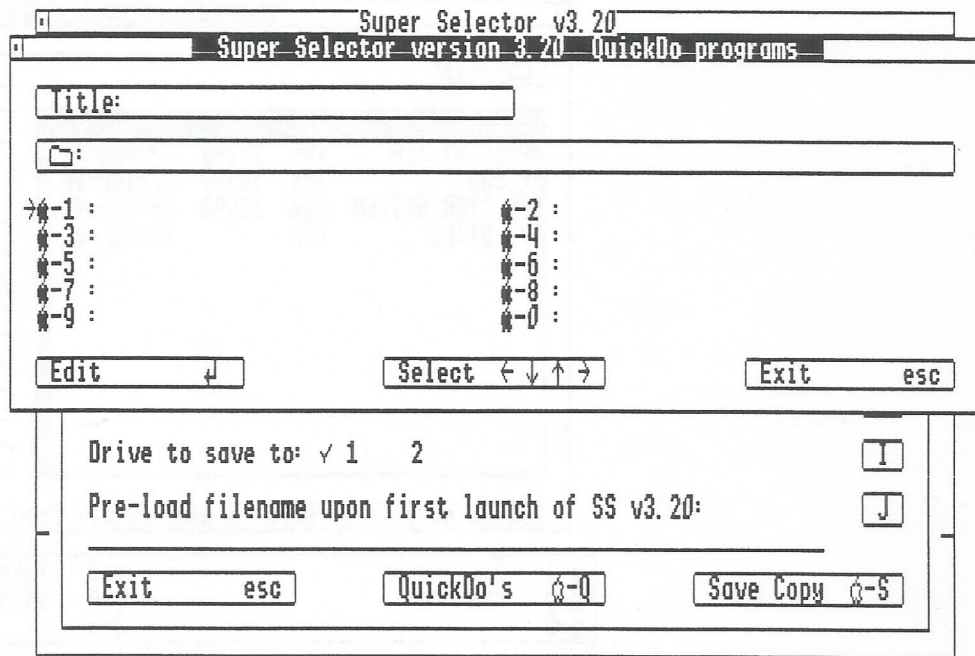


Figure 3-6 Super Selector QuickDo Setup Menu

10. Repeat these steps to add Backup II with the appropriate changes to the ProDOS pathname, Title and of course the corresponding Closed Apple QuickDo key.
11. Press ESC to exit the QuickDo editor and examine the QuickDo list.
12. Press OA-S to save the options.

The options screen must be saved again or the QuickDo list will be lost when the computer is powered down.

13. Exit the options screen by pressing the ESC key.

The QuickDo list is shown on the bottom of the screen, but the entries we have added are not visible. If you have a mouse, you can scroll the list by placing the mouse cursor on the 'down arrow' of the QuickDo scroll bar. With the keyboard, press the Closed-Apple down-arrow combination to scroll.

- ❖ The QuickDo entry does not have to be visible to run it.

14. Now press the keystroke combination Closed-Apple-7 (use the number corresponding to the Apple System Utilities) to run the Apple System Utilities.

If you receive an error "Unable to launch the following" followed by a ProDOS pathname, it implies that an error occurred when entering data in the Quick Do setup menu.

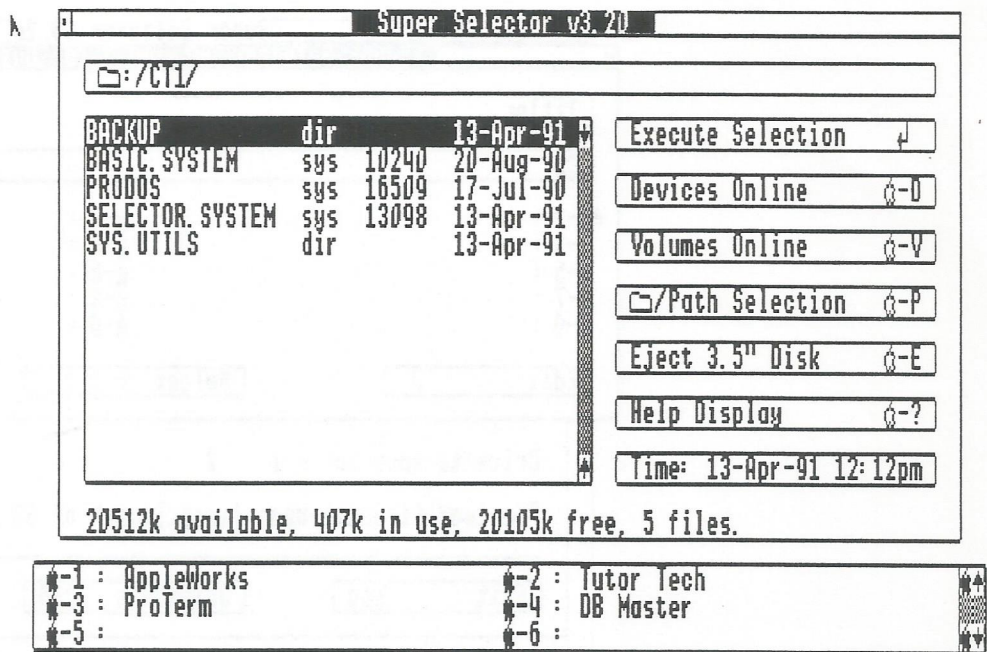


Figure 3-7 Super Selector with QuickDo Menu

Return to the QuickDo setup menu and check the entry for errors. Repeat these steps until it runs correctly.

12. Check the Backup II entry to make sure it runs correctly as well.

We have explored most of the properties of Super Selector. Super Selector cannot delete or add files or damage your hard drive in anyway, so feel free to experiment with the various options. If you have questions, the first place to look is the Help Display accessed by 'OA-?'. If you have additional questions, contact technical support.

Adding Files to the Hard Drive

Adding files to the hard drive is a relatively simple. It's basically a two step process:

1. **Create a subdirectory on the hard drive. This subdirectory will be the destination of the files you wish to copy.**
2. **Copy the appropriate files into the subdirectory.**

Subdirectories

- ❖ Subdirectories are used to organize your hard drive. Imagine a filing cabinet with all the contents just thrown into the cabinet. How would you ever find anything. That's exactly what could happen to your hard drive if you don't use subdirectories. It's not uncommon for a 20 Megabyte hard drive to have over 1500 files. How would you look for the file if you forgot how to spell it? Subdirectories allow you to organize your files on the hard drive in the same way that folders in a filing cabinet help you organize your paperwork and memo's.

Copying

- ❖ Most of the time, you don't need to copy all the files that are on your 'Source' disk. For example, you never need to copy the file ProDOS. Any disk only needs one copy of ProDOS and the hard drive doesn't need and won't use additional copies. The same is true for Basic.system. If you're in doubt about which files to copy, consult the software manual. If there are no hard disk installation procedures, contact the software publisher.

Installing AppleWorks

Create a Destination Subdirectory

Use an **un-modified backup** of your original AppleWorks disks.
Do not copy AppleWorks patched with timeout as it will be
necessary to re-install timeout.

1. Run the Apple System Utilities.

From the Super Selector menu, run the Apple System Utilities
by using the appropriate QuickDo key or by navigating to the
SYS.UTIL subdirectory and running the program
SYSUTIL.SYSTEM.

2. Under the Work on ProDOS Disks Only option, move the cursor using the arrow keys to highlight the CREATE SUBDIRECTORY entry.

3. Press return.

4. Select ProDOS pathname in response to the "Where is your disk" query.

5. Press the delete key until only the volume name of the hard drive appears.

For example: /CT1/

6. Press Return.

7. Enter the name for a new subdirectory.....

Enter AW for AppleWorks. Or enter any name you wish that
is not longer than 15 characters. Press return. At the bottom of
the screen there should be a message "Create Complete; Press
RETURN to return to Main Menu".

Apple II System Utilities
Version 3.1

Create Subdirectory
ESC: Main Menu

Using /CT1

Enter name for new subdirectory AW_.....

Figure 3-8 Apple System Utilities Create Subdirectory Screen

8. Press RETURN to return to the System Utilities main menu.
9. Select the Copy Files option and press return.
10. Where is your source disk? Select slot and drive.

In general, it is acceptable to refer to floppy disks by their slot and drive designators. The exception is when the floppy disk has subdirectories that contain the files you wish to copy. In those situations, you must refer to the floppy disk by its ProDOS pathname.

11. Press Return.
12. Where is your destination disk? Select ProDOS pathname.
13. Delete the default entry until only the volume name remains, followed by a slash. /CT1/ for example.
14. Type in the AppleWorks subdirectory, AW .
15. Press RETURN.
16. Copy Some or All files? Select SOME.

Although you may desire to copy all files, by selecting the SOME option you are given a display of all the files on the disk.

17. Select the files to copy by using the space bar to select the file (a check mark will appear by the file).

The following files do not need to be copied to the hard drive

Apple II System Utilities
Version 3.1

Copy Files
ESC: Main Menu

```

PRODOS
✓SEG. PR
✓APLWORKS. SYSTEM
✓SEG. DO
✓SEG. XM
✓SEG. RM
✓SEG. AM
✓SEG. EL
✓SEG. AW
✓SEG. ER
✓SEG. WP
✓SEG. DB
✓MAIN. DICTIONARY
✓CUST. DICTIONARY
✓SEG. SS
FASTCOPY. SYSTEM

```

Press ↑ ↓ ← → to move, SPACE to select, and RETURN to begin.

Figure 3-9 Apple System Utilities Select to Copy Screen

subdirectory:

PRODOS (disk 1)
FAST.COPY (disk 1)

All other files should be copied.

18. Press RETURN to start.

19. Press return when prompted to enter the hard drive volume name, /CT1, since it is already connected/inserted.

If you are copying AppleWorks from 5.25" floppies, repeat the above steps with each floppy until you have copied all necessary files. The dictionary must be in the same subdirectory as the AppleWorks program for it to be recognized.

20. When copying is complete, press RETURN to return to the main menu.

21. Quit the System Utilities.

22. Run the file Aplworks.System to verify that program installation was successful.

If you desire, now is the perfect time to add AppleWorks to the QuickDo menu. Remember to save at the options menu after you have added any program to the QuickDo menu.

Adding TimeOut

If you have been using TimeOut with AppleWorks, execute the following steps to get TimeOut up and running on your hard drive.

1. Create a subdirectory called TO.

2. Copy the files from your TimeOut data disk into this subdirectory.

3. Boot up one of your TimeOut disks and run the installation procedure. To do this from Super Selector, execute the following steps:

- a). OA-V to display volumes
- b). Select the TimeOut disk from the list of volumes.
- c). Highlight the file STARTUP
- d). Press RETURN to run STARTUP.

4. At the main installation menu select:

Update AppleWorks

5. Sort applications menu

What you desire

6. More than one TimeOut applications disk?

NO, all TimeOut applications are installed on a single disk drive in the subdirectory /CT1/TO

7. Location of TimeOut applications

Select ProDOS pathname

8. Enter ProDOS pathname

Enter: '/CT1/TO' (don't enter the quotation marks)

9. Location of AppleWorks startup disk

Enter ProDOS directory

10. Enter ProDOS pathname

'/CT1/AW'

11. Press RETURN to initiate installation of TimeOut.

When the installation process is complete, AppleWorks and TimeOut will be up and running better than ever.

Troubleshooting - IIc

1. Flaky system operation.

Check all cables, make sure they are tightened securely.

Try removing some of the daisy-chained devices (Make sure power is removed from both the hard drive and the IIc).

2. Cannot boot off the hard drive.

Drive is not in a startup configuration, see Chapter 1.

Hard drive must be turned on approximately 10 seconds before the computer.

3. Hard Drive is not recognized.

The smartport bus has possibly been damaged. Are any daisy-chained devices recognized? Remove the hard drive from the system. Have the symptoms changed? Call technical support with your results.

4. Volume full error is reported and the hard drive volume is not full.

ProDOS can only support a maximum of 51 files in the main directory. If you attempt to move more than 51 files to the main subdirectory a volume full message will be returned. The solution to this dilemma is to create a subdirectory and copy your files to the subdirectory. In general, you should not refer to the hard drive by its slot and drive designation. You should refer to it by its ProDOS pathname..

GENERAL USER NOTES

Your hard drive has already been formatted, and the operating system pre-installed. Your disk will contain the files ProDOS 8, Basic.system, the Apple System Utilities, Backup II, and Selector.system. You may use the selector to locate and execute system files on your drive so that you may run your programs. The executable file for the Apple System Utilities program is in the sys.utils subdirectory and is called sysutil.system. Its full ProDOS pathname is:

/ct/sys.util/sysutil.system

The executable file for Backup II is in the backup2 subdirectory and is called backup.system. Its full ProDOS pathname is:

/ct/backup2/backup.system

